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A stone is not God but
there is God in a stone.
A man is not God but
there is God in man

- Anonymous

From the Vice Chancellor's Desk



Agriculture and economy in India are dependent on monsoon. The production of agricultural crops, besides the weather induced fluctuation significantly depends on the availability of inputs like fertilizers, irrigation, certified seeds, credit supports, etc. Onset of monsoon at right time and right amount of rains act as effective incentives for acreage response of the agricultural crops.

Gujarat has been blessed with good monsoon since a decade now. Gujarat topped the country's decadal agricultural growth rate with around 10.97 percent. Improved agricultural infrastructure including irrigation system, adoption of new technologies, availability of electric power and above all the good monsoon throughout the decade are the major reasons for the spectacular agricultural growth of Gujarat state. This year, it had a deficient June. But the monsoon recovered satisfactorily in the month of July and is doing better in August also. As a result of this, the farmers of the state, in general, and the Saurashtra, in particular, are happy. The weather situation has improved to increase agricultural output this year also. Cotton witnessed an increase in area during this year as well.

Sixty five percent of Indian agriculture is mainly dependent on natural factors, particularly rainfall. Studies have established that monsoon vagaries and rainfall variations account for more than 50% of variability in crop yields. This year we hope that the farmers will harvest a bumper crop.

(N C Patel)

Mega Krushi Mela - 2011



Hon'ble Chief Minister, Shri Narendra Modi inaugurating the Mega Krushi Exhibition at Una



Hon'ble Chief Minister, Shri Narendra Modi visiting the stalls of Krushi exhibition



Hon'ble Chief Minister, Shri Narendra Modi addressing the farmers at Krushi Mela, Una



Hon'ble Agricultural Minister, Shri Dileep Sanghani, Shri Kanubhai Bhalala and other dignitaries inaugurating the Mega Krushi Mela at Una

Krushhi Mahotsava - 2011

The state government has been organizing *Krushhi Mahotsava* for last seven years to extend the expertise of the agricultural scientists to the farmers of the state. Through this, peoples' participation gets strengthened and modern technology, Agril-machineries, farm operation methods, the new species of crops, the ideas of water conservation, energy conservation, etc. can reach to the farmers. In this *Krushhi Mahotsava*, about 300 agricultural scientists of JAU, go from village to village and provide guidance to the farmers. This year also it was celebrated from May 6, 2011 to June 5, 2011.

This year, in this Mahotsava, PG students of JAU were also sent to the villages so that they get acquainted with the conditions of the farmers and accordingly can carry on their research work. Moreover, the main occupation of the villagers, situated at coastal areas of Saurashtra region is fishing; therefore with a view to giving them guidance regarding modern techniques related to fishing, the students of Fisheries College also joined the *Krushhi Rath*. Some VCDs

regarding the main five crop of Saurashtra region like cotton, ground nut, millet, sesame and pigeon pea were prepared by JAU and distributed to more than 4600 village sarpanchs.

Mega Krushi Mela

As a part of Krushi Mahastava a Mega Krushi Mela was organized for two days which was being visited by 65,000 farmers. Seven progressive farmers were also felicitated by Hon'ble Chief Minister Narendra Modi. Moreover, seven farmers were given away 'Sardar Patel Krushi Puraskar Awards' sponsored by Government of Gujarat.

- The Chief Minister also gave ₹ one lakh each to two women under the scheme of 'Akasmaat Vima Yojana'. Moreover, for such purpose as cold storage, green house etc. some monetary help and approval letters were also distributed by the Hon'ble Chief Minister. The Fisheries Department gave the kits of DATS (Distance Alert Transmission) to the fishermen. Over and above this, soil health cards were also distributed to the farmers.
- The seminar on 'Drip irrigation method and its maintenance' and 'Reconstruction of Talukas' were organized and relevant literature was distributed.
- On the occasion, "Laboratory for Bio Agents Mass Production", JAU, Junagadh which was established with an outlay of ₹ 25 lakh, was inaugurated by Hon'ble Chief Minister Shri Narendra Modi. Moreover, milk chilling centre, Judvadali (Una) which is being constructed at the expenses of ₹ 2.40 crores was also dedicated to the public of Una. The stalls organized by JAU were the centre of attraction of the public.

Students' Welfare Activities

Counseling and Placement

For providing better career opportunities and placement to the students, the university organized 10 on campus and three off campus interviews during April, 2011 to June, 2011. About 56 students from College of Agriculture, College of Agricultural Engg. & Tech. and College of Fisheries were appointed by different employers viz. Bank of India (17), Netafim Irrigation (20), West Coast Frozen Foods Pvt. Ltd. Mumbai (10), Deepak foundation (3), GGRC, Vadodara (3), HDFC Bank (2) and Appolo Tyres, New Delhi (1).

Adventure

Forty three students of Junagadh Agricultural University participated in the Basic Rock climbing camp organized by the Pandit Dindayal Upadhyay State Mountaineering Institute, Mount Girnar, Junagadh during June 14 to June 23, 2011.



Participants in Basic Rock Climbing camp at Mount Girnar

National Integration Camp

NSS Regional Centers, Ministry of Youth Affairs & Sports regularly organize National Integration Camps in their areas. Such camps provide good platform to the NSS volunteers to exchange their thoughts especially for serving the poor people and society., In this Year, 2011-12 this camp was organized at DCM College ,Viramgam (Gujarat) during June 9-15, 2011. In the camp, 10 volunteers : 5 boys from Polytechnic in Agriculture, JAU, Dhari and 5 girls from Polytechnic in Home Science, JAU, Amreli participated.



Participants in National Integration Camp at Viramgam

Another National Integration Camp was organized during June 22 to 28, 2011 at Kuvempu University, Shimong District, Karnataka. In this camp 10 students of College of Agricultural Engineering and Technology comprising 5 boys and 5 girls had participated.

Annual Day celebration of College of Agriculture, Junagadh



Hon'ble Vice Chancellor, Dr. N. C. Patel inaugurating "Krushhi Dhabkar-2011"



Hon'ble Vice Chancellor, Dr. N. C. Patel awarding prizes to winners of various competitions

Annual Day "Krushhi Dhabkar-2011" function was organized by the students of College of Agriculture, JAU, Junagadh with pomp and ceremony during April 19-20, 2011. The function was celebrated in four different phases during these two days. The inaugural function was held on April 19, 2011 at Gymkhana Ground, JAU, Junagadh with colorful traditional March past by the students of each semester. Outdoor and indoor games were organized on the first day and the winning teams or individuals were given prizes.

On April 20, 2011 prize distribution programme was arranged in which students were felicitated with prizes, certificates and medals for their outstanding performance in various fields. Dr. D. P. Chikhaliya, Vice President, All India Medical Association, Dr. P.V. Patel, Director of student welfare, Dr. C.J. Dangaria, Director of Research, Dr. A.V. Barad, Principal and Dean, College

of Agriculture and Dr. K. B. Polara, Chairman, Student Union, College of Agriculture, remained present in this function. This programme was followed by 'Fish Pond' event.

The Annual day function was the real 'Krushi Dhabkar' during which students participated with great zeal & enthusiasm. The students performed different types of traditional and western cultural dances, dramas, action songs etc. and received lot of applause by the audience.

Dr. N.C. Patel, Hon' ble Vice Chancellor, Dr. Manish Patel past student of this college presently serving as the Director, Incotec India Pvt. Ltd. Netherland, along with university officers, Deans and Principals of different faculties remained present in this event and encouraged the participants.

Research Highlights for 2010-11

Varieties/recommendations and new technical programmes were presented by concerned conveners in seventh combined joint AGRESCO meeting of SAUs held at AAU, Anand on April 25-27, 2011. Six new varieties/hybrids, 32 recommendations for farmers, eight scientific information and 94 new technical programmes were approved.

New Varieties

A - Main Oilseeds Research Station, JAU, Junagadh

1. Groundnut: Gujarat Junagadh Groundnut-17 (GJG-17)

The variety Gujarat Junagadh Groundnut-17(GJG-17) is recommended for cultivation during *kharif* rainfed condition in the spreading groundnut growing areas of the state. The variety yielded 38.3, 20.4 and 13.7 per cent higher pod yield (1798 kg/ha) over the check varieties M-335 (1332 kg/ha), GG-11 (1493 kg/ha) and GG-13 (1581 kg/ha), respectively. It also has higher shelling out turn, higher kernel yield and oil yield than the checks. It is also tolerant to stem rot.



2. Groundnut: Gujarat Junagadh Groundnut-22 (GJG-22)

The variety Gujarat Junagadh Groundnut-22 (GJG-22) is recommended for cultivation in *kharif* groundnut

growing semi-spreading areas of Saurashtra and South Gujarat. This variety recorded 37.2 and 15.1 per cent higher pod yield (1770 kg/ha) than the checks Kadiri-3 (1290 kg/ha) and GG-20 (1538 kg/ha), respectively. The recommended variety possesses rose coloured uniform kernels with better shelling out turn (72.5%). It also showed resistant reaction to collar rot.



B - Vegetable Research Station, JAU, Junagadh

3. Indian Bean: Gujarat Junagadh Indian Bean-11 (GJIB-11)

The variety Gujarat Junagadh Indian Bean-11(GJIB-11) recorded 31.2 and 32.1 per cent higher green pod yield (95.39 q/ha) over *Virpur* local (72.7 q/ha) and *Dantiwada* local (72.22 q/ha), respectively. This variety being semi-spreading in nature is easier to harvest. The Gujarat Junagadh Indian Bean-11 is recommended for cultivation in late *kharif* growing areas of Saurashtra and Middle Gujarat. The pods of this variety are medium length in size with green colour.



4. Okra: Gujarat Junagadh Okra Hybrid-3 (GJOH-3)

The hybrid Gujarat Junagadh Okra Hybrid-3 (GJOH-3) is recommended for endorsement for cultivation in *kharif* okra growing area of Gujarat state due to its yield superiority (137.44 q/ha) to the tune of 19.9, 26.2, and 29.8 per cent over the checks GOH-1 (114.65 q/ha), Parbhani Kranti (108.87 q/ha) and Pusa Sawani (105.87 q/ha), respectively. The fruit is dark green in colour and tender with higher protein (1.15%) and ascorbic acid content (6.3 mg/100g). The hybrid showed lesser incidence of YVMV (24.2%). The hybrid has already been released under AICRIP programme for zone V, VI and VII of India.



5. Soybean: Gujarat Junagadh Soybean-3 (GJS-3)

The variety Gujarat Junagadh Soybean-3(GJS-3) is recommended for cultivation under *kharif* rainfed condition for Saurashtra region, as it out-yielded (1860 kg/ha) the local checks GS-1(1490 kg/ha) and GS-2 (1277 kg/ha) to the tune of 24.8 and 43.7 per cent, respectively. It has also recorded 18.02 and 28.63 per cent higher yield than zonal checks JS-335 (1576 kg/ha) and PK-472 (1446 kg/ha), respectively. Consequent upon its higher oil content (19.2%), it gave 30.7, 49.6, 20.2 and 32.6 per cent higher oil yield per hectare than GS-1, GS-2, JS-335 and PK-472, respectively. It is determinate type, with dark green foliage and yellowish brown seeds coupled with non-shattering habit.



C - Main Pearl Millet Research Station, JAU, Jamnagar

6. Pearl Millet: Gujarat Hybrid Bajra-732 (GHB-732)

The hybrid Gujarat Hybrid Bajra-732 (GHB-732) is recommended for endorsement for summer pearl millet growing area of Gujarat state as a medium late maturity hybrid. The hybrid revealed 15.0, 13.0 and 22.0 per cent higher grain yield (5037 kg/ha) over GHB-538 (4389 kg/ha), GHB-558 (4449 kg/ha) and GHB-526 (4140 kg/ha), respectively. It has synchronous tillering, appealing ear head with bold seeds. It showed resistance to lodging with good quality fodder (8150kg/ha).



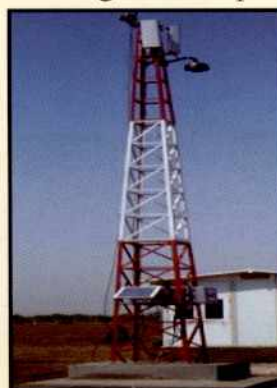
Recommendations for farmers/scientists during 2010-11

Name of the Sub-Committee	No. of recommendations finalized for		New Technical Programme
	Farmer	Scientific Community	
Crop Improvement	06*	-	01
Crop Production	16	05	26
Plant Protection	05	-	21
Agricultural Engineering	05	01	10
Horticulture & Agro forestry	04	01	06
Animal Science	-	-	05
Fisheries science	02	01	07
Social Science	-	-	08
Basic Science	-	-	10
Total:	6*+32	08	94

* Varieties released

Installation of i-Linc Technologies under RKVY Project at Mahuva

A project under RKVY on “Smart farming for increasing agricultural production in Sodic soils of Coastal areas of Saurashtra” has been implemented at Fruit Research Station, JAU-Mahuva with technical guidance from i-Linc Technologies” (“i-Linc”) -USA along with Aqua-Phyd, USA and Maple Orgtech (AEM) , Kolkata. The farm is facing the problem of high electrical conductivity (EC 2.5 to 3.0 dS m⁻¹) and high pH (8 to 8.5) and soil became phytotoxic over years of intensive crop production. Due to these reasons crops are suffering and the productivity is drastically reducing. The technology will help in bringing the problematic soil of the coastal regions under cultivation by irrigating the crop with existing saline water using Aqua-Phyd technology. The application of Activated Effective Microorganism (AEM) was made in the soil and the installation has been completed for the FarmLinc technology along with the field sensors to collect information of soil moisture and temperature through radiometric remote sensing and received on a ground station from where internet clouds were generated to supply the information to any destination of the globe at any time (24X7) for decision support. The project will be useful in improving sodic soils of saline groundwater coastal area and hence will increase agricultural production in this region.



Wireless Sensor Module for Soil Moisture, EC and Temperature Measurement

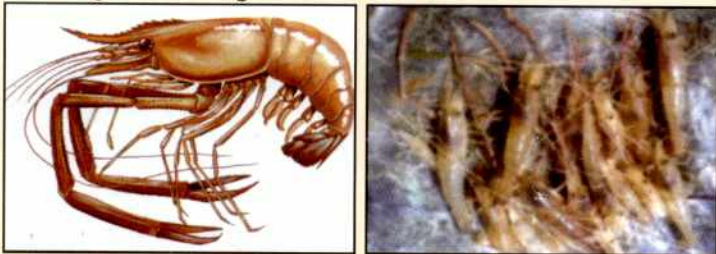


Hon'ble Vice-Chancellor, Dr. N. C. Patel at data receiving computer control unit at Fruit Research Station, Mahuva

Freshwater prawn farming in Saurashtra

Shri M.J. Samani resident of Porbandar converted his one hectare agricultural land into freshwater prawn farming located at Tukada Gosa near Porbandar. The farmer has produced a remarkable production of 1.25 ton/ha (prawn weight ranging from 70-100g) from his first crop within 7 months duration (Nov-10 to May-11).

Prof. A. A. Vyas, Officer-in-charge, Inland Fisheries Research Station, Junagadh Agricultural University, Junagadh, had extended total technical guidance right from beginning to harvest of the crop. The farmer appealed to all the farmers interested in prawn farming for visiting his farm for demonstration.



Freshwater Prawn Macrobrachium rosenbergii(Scampi)

Best ATMA District SILVER Award

Dr. J.N. Nariya, Programme Coordinator cum Project director (ATMA), Krishi Vigyan Kendra, Jamnagar was selected as the Best performing ATMA District in the Scheme. Inter-Departmental Working Group (IDWG) of ATMA, Gujarat State; ATMA Jamnagar has been accredited and ranked the best performing ATMA district for the Years 2006-07 and 2007-08. As a reward, Dr. J.N. Nariya the programme coordinator received a cash prize of ₹ 50,000/- for each year on June 27, 2011.

The function was organized at KVK, Jamnagar, Junagadh Agricultural University, Jamnagar on June 27, 2011. The Silver awards were presented by District Development Officer Shree Ajaykumar, IAS, District Jamnagar and State Nodal Officer, Dr. Ashok A. Patel, ATMA sameti, Gandhinagar.

During this programme about 400 FIG's farmers and officers of line departments also remained present. Scientists team of Millet Research Station, Scientists of KVK, JAU, Jamnagar and all AGB members of ATMA, Jamanagar attended the programme



Dr. J. N. Nariya, receiving best ATMA district award from Shree Ajaykumar, DDO, Jamnagar

Annual Workshop



Hon'ble Vice Chancellor, Dr. N. C. Patel inaugurating the Annual Zonal Workshop for KVKs of Zone VI

The Annual Zonal Workshop for KVKs of Zone VI consisting of Gujarat and Rajasthan states was organized at Junagadh Agricultural University, Junagadh from June 9-11, 2011. The workshop was inaugurated by Hon'ble Vice Chancellor Dr. N.C. Patel, Dr.J.B. Misra Director, Directorate of Groundnut Research, Junagadh remained present as a chief guest. In this workshop 57 Programme Co-ordinators of KVKs of Zone VI, six Directors of Extension Education of SAUs of Rajasthan and Gujarat state as well as senior officials of Zonal Project Directorate, Jodhpur(Rajasthan) were present wherein work done and progress made during the period from January 01, 2010 to May 31, 2011 by the KVKs was reviewed and action plan to be implemented was discussed and finalized.

Omics Learning Programme

A training programme on "Genomics, Transformation, Molecular Marker and Bioinformatics Tools for plant study and crop improvement" was organized by Department of Biotechnology, JAU, Junagadh during June 29 to July 8, 2011. The programme was sponsored by Gujarat State Biotechnology Mission (GSBTM), Department of Science & Technology, Government of Gujarat, Gandhinagar. Thirty five students including 17 girls from different universities of state participated in the training.

Dr. N. C. Patel, Hon'ble Vice Chancellor inaugurated the function. Dr. C. J. Dangaria, Director of Research & Dean, PG studies and Dr. A. V. Barad, Principal & Dean, College of Agriculture were remained present in the function. Dr. B. A. Golakia, Professor & Head, Department of Biotechnology was the lead person of the training.



6 Participants with faculty members of Department of Biotechnology

GLIMPSES OF EVENTS



Hon'ble Vice Chancellor, Dr. N. C. Patel addressing at the Farewell Function of CAET "Spandan-2011"



Hon'ble Vice Chancellor, Dr. N. C. Patel and university officers during inauguration of "Spandan-2011"



Hon'ble State Minister of Agriculture, Shri Kanubhai Bhalala inaugurating the Second National Meet on Tractor and Machinery Manufacturers (TAMM-2011) during April 29-30, 2011



Hon'ble Agricultural Minister, Shri Dileep Sanghani addressing farmers at "Krushi Mela"



Hon'ble Agricultural Minister, Shri Dileep Sanghani presenting "Krushi na Rushi" award to a progressive farmer



Hon'ble Finance Minister, Shri Vajubhai Vala along with dignitaries inaugurating the district level opening ceremony of Krushi Mahotasva-2011 at Bhiyal village on May 6, 2011



Hon'ble Finance Minister Shri Vajubhai Vala and Shri Purshottam Rupala flagging off the Krushi Rath at Karshangadh village of Savarkundla Taluka during Krushi Mahotasva-2011



Hon'ble Vice Chancellor, Dr. N. C. Patel inaugurating the state level seminar under mega event of Krushi Mahotasva-2011 at KVK, Targhadia on May 19, 2011

